

LIST OF MAINTENANCE ACTIVITIES

		Work	Inventory
Code	Activity Name	Unit	Unit
F40 000	Daadway		
542.300	Roadway	.,	
.311	Grading	pass mile	gravel road mile
.312	Grading with roller	pass mile	gravel road mile
.313	Gravel Replacement	cubic yard	gravel road mile
.321	Pothole Repair	ton	paved road mile
.322	Crack Sealing	hours	paved road mile
.323	Blade Patching	ton	paved road mile
.324	Seal Coating / BST	road mile	paved road mile
.331	Shoulder Maintenance	shoulder mile	shoulder mile
.332	Shoulder Repair	cubic yard	shoulder mile
.390	Other Roadway Maint.	hours	road mile
542.400	Drainage		
.411	Ditching w/grader	ditch mile	ditch mile
.412	Ditching w/ditcher	ditch foot	ditch mile
.421	Culvert cleaning	culvert	culvert
.422	Culvert repair/repl.	lineal feet	culvert
.430	Catch basin cleaning	each	catch basin
.490	Other Drainage Maint.	hours	road mile
542.500	Structures		
.511	Bridge Maint	hours	bridges
.512	Bridge Repair	hours	bridges
.590	Other Bridge/Str Maint	hours	bridges
542.600	Traffic		
.610	Sidewalks	hours	sidewalks
.620	Special Purpose Paths	hours	paths
.641	Sign Maintenance	signs	signs
.642	Guardrail Maint/Repair	lineal feet	guardrail ft
.643	Pavement Markings	lineal feet	road mile
.660	Snow & Ice Control	hours	road mile
.670	Street Cleaning	hours	road mile
.690	Other Traffic Maint	hours	road mile
542.700	Roadside Development		
.712	Brush Control (Mech)	shoulder mile	shoulder mile
.713	Brush Control (Man)	hours	shoulder mile
.721	Chem Veg Control (Mech)	shoulder mile	shoulder mile
.722	Chem Veg Control (Man)	hours	shoulder mile
.731	Landscape Maint	hours	shoulder mile
.751	Litter Control	hours	shoulder mile
.761	Slope Repair	hours	shoulder mile
.790	Other Roadside Maint	hours	shoulder mile
542.800	Ancillary Operations	hours	year
542.900	Administration		
.910	Maint Admin	hours	year
.920	Shop / Yard	hours	year
.930	Road Patrol	hours	year
.990	Other Admin	hours	year
.000	· · · · · · · · · · · · · · · · · ·		,

SUGGESTED LIST OF MAINTENANCE ACTIVITIES

Code	Activity Name	Inventory Unit
542.30	Roadway	
.31	Gravel Roads	gravel road mile
.32	Paved Roads	paved road mile
.33	Shoulders	shoulder mile
.39	Other Roadway Maint.	road mile
542.40	Drainage	
.41	Ditching	ditch mile
.42	Culverts	culvert
.43	Catch basins	catch basin
.49	Other Drainage Maint.	road mile
542.50	Structures	
.51	Bridges	bridges
.59	Other Structure Maint.	structures
542.60	Traffic	
.61	Sidewalks	sidewalks
.62	Special Purpose Paths	paths
.63	Sign Maintenance	signs
.64	Guardrail Maint/Repair	guardrail
.66	Snow & Ice Control	road mile
.67	Street Cleaning	road mile
.69	Other Traffic Maint	road mile
542.70	Roadside Development	
.71	Brush Control	shoulder mile
.72	Chemical Veg Control	shoulder mile
.73	Landscaping	shoulder mile
.75	Litter Control	shoulder mile
.76	Slope Repair	shoulder mile
.79	Other Roadside Maint	shoulder mile
542.80	Ancillary Operations	
542.90	Admin. & Overhead	

		ACTIVITY COSTING STANDARD DAILY COSTS										
		ACTIVITY	Y NAME:									
		ACTIVITY	Y CODE:									
		MEASURI	EMENT U	JNIT:								
PERSO	NNEL/CREW C	OSTS			HOURLY		% TOTAL					
CODE	CLASS	0010	QTY	HOURS	RATE	COST	CO					
							\longrightarrow					
							\dashv					
							+					
	CREW TOTA	L	0	0		0.00	#####					
EQUIP	MENT				HOURLY		% TO	TAL				
CODE	CLASS		QTY	HOURS	RATE	COST	CO	ST				
							\longrightarrow					
							-					
							+					
	EQUIPMENT	TOTAL	0	0		0.00	#####					
				T								
MATE			O/EN/	UNIT		COST	% TO					
CODE	CLASS		QTY	COST		COST	CO	<u>S1</u>				
	MATERIALS	TOTAL	0	0		0.00	#####					
	CONTRACT	SERVICES				0.00	#####					
	SUMMARY:											
	TOTAL DAIL	Y COST				0.00						
	AVERAGE DA		OMPLISH	IMENT		0.00						
	UNIT COST					#DIV/0!						

WASHINGTON COUNTIES

				MAI	NTEN	Ma ANCE			nagem LANN		UIDEI	INE	
			ACTI	VITY N									
			ACTI	VITY (CODE:	<u> </u>							
ACTIVI	TY DESC	RIPTIC	ON:										
	NTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	EDULE												
SCHED	ULING CO	ONSID	ERAT)	IONS:									
PERSON	NNEL					WOR	K CON	ISIDEI	RATIO	NS			
CODE	CLASS	QTY											
EQUIPN	<u> </u> //FNT												
CODE	CLASS	QTY				-							
0022	021100	· ·				1							
						REFE	RENC	E AND	SAFE	TY			
3.4.4.EED	TATO												
MATER		OTV											
CODE	CLASS	QTY											
	<u> </u>												
	GE DAIL!	1			ENT	l		NCE F	EATU	RE IN	VENT(
QUANT	ITY	WOR	K UNI	<u>I</u>		FEAT	UKE		UNIT			CODE	Ľ
PLANNI	ING GUID	ELINE	. A DDI	ROVAI									
BY:	ING GUID	12171111		XU Y AL	1	EFFE	CTIVE	DATI	T:		PREV	•	

ACTIVITY NAME: GRADING

			ACTI	VITY (CODE:	311 (.	542.31	1)						
													-	
	TY DESCI	RIPTIC)N: <i>Bl</i>	ading, s	shaping	g and sm	ioothing	g grave	el roads	to rest	ore pro	per gra	de,	
snape an	d drainage.													
MON	THLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	
	EDULE	X	X	X	X	X	X				X	X	X	
SCHED	ULING CO	NSIDI	ERATI	ONS:	Gradin	ig is per	formed	when i	ruts, gr	ooves, o	or holes	cause	ı	
	te drainage								_				eds	
upon wed	ther, traffic	c, and s	urface :	stability	. Sche	dule dr	ading to	take a	dvanta	ge of no	atural n	noisture	2.	
PERSO	NNEL					WORI	K CON	SIDEF	RATIO	NS				
CODE	CLASS			QTY		1. Est	ablish t	raffic c	control	as nece	essary.			
L203	Maint Wo	rker III		1		2. Grader generally makes two or more passes per								
						lane mile and back blades as necessary.								
						3. Road should be worked in increments less than 2								
						miles d	and who	en ade	quate n	ıoisture	e exists.			
EQUIPN				1		1								
CODE	CLASS			QTY		1								
E101	Grader			1		1								
E102	Pickup			1		L								
						REFE	RENC:	E AND	SAFE	TY				
MATER	IAIC					-								
CODE				OTV		1								
CODE	CLASS			QTY		1								
	1					1								
						-								
						-								
						1								
						†								
						†								
AVERAGE DAILY ACCOMPLISHMENT						MAIN	TENA	NCE F	EATU	RE IN	VENTO	ORY		
QUANTITY WORK UNIT						FEAT			UNIT			CODE]	
	4 to 12					gravel			miles					
PLANN	ING GUID	ELINE	APP	ROVAL	1									
BY:						EFFE	CTIVE	DATI	E:		PREV	:		

ACTIVITY NAME: GRADING

ACTIVITY CODE: 311

MEASUREMENT UNIT: pass mile

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maintenace Worker III	1	8	28.64	229.12	
	CREW TOTAL	1	8		229.12	47%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E101	Road Grader	1	8	28.00	224.00	
E102	Pickup	1	8	4.00	32.00	
	EQUIPMENT TOTAL	2	16		256.00	53%
MATEI	DIALC		UNIT			0/ ТОТА
CODE	CLASS	QTY	COST		COST	% TOTAI
	MATERIALS TOTAL	0	0		0.00	0%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				485.12	
	AVERAGE DAILY ACCO	OMPLISH	IMENT		12	pass miles
	UNIT COST (\$/UNIT)				40.43	

ACTIVITY NAME: GRADING WITH ROLLER

ACTIVITY CODE: *312* (542.312)

	TY DESC			_	shaping	g and sn	noothin	g and c	compact	ing gra	avel roa	ds to re	estore	
proper g	rade, shape	and dr	ainage.											
MO	NTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SCH	EDULE													
SCHED	ULING CO	ONSIDI	ERATI	ONS:	Gradin	g is per	formed	l when i	ruts, gr	ooves,	or holes	s cause		
inadequa	ate drainage	e, uncon	nfortab	le ride,	or poo	r road d	conditic	ons. Th	e freque	ency of	gradin	g depen	nds	
	ather, traffic	c, and s	urface	stability	'.	•								
PERSO:				•		WOR	K CON	ISIDEI	RATIO	NS				
CODE	CLASS			QTY		1. Establish traffic control as necessary.								
	Maint Wo		•	3		2. Rip road to remove washboarding.								
	Maint Wo	rker II		1		3. Grader makes two or more passes per lane mile.								
						4. Work in increments less than 2 miles								
						5. Apply water as needed to attain moisture								
	QUIPMENT TODE CLASS OTV						6. Roll with roller and remove any large rocks							
CODE	CLASS			QTY		7. Rei	nove si	gns						
	Road Grader 1													
	Steel Roller 1													
	Water tru	ck		1		REFE	RENC	E AND	SAFE	TY				
	Pickup			1		1								
MATER				Г										
CODE	CLASS			QTY										
						-								
						-								
AVEDA	CE DAILS	7 100	OMBI	ICITATI	ישואי	NA A TAI		NODE	TEL A PERT T	DE IN	T / III N I / III /	ODV		
AVERAGE DAILY ACCOMPLISHMENT QUANTITY WORK UNIT					LI N 1			NCE F	UNIT	KĽ IN	VENT	CODE	יק	
QUANI		pass m		1		FEAT gravel			miles			CODE	ע	
	12	pass m	nes			gravei	roaa		mues					
PLA NN	ING GUID	FLINE	' A P D I	POVAI										
BY:	ING GUID	TITITE	/ /X1 1 I	XU V AL	1	EFFF	CTIVE	DATI	7.•		PREV	·•		
<i>ν</i> 1.	:					יתו די די די	CIIVE	ואעו	4.		TIVE	•		

ACTIVITY NAME: GRADING WITH ROLLER

ACTIVITY CODE: *312*

MEASUREMENT UNIT: pass mile

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI	
CODE	CLASS	QTY	HOURS	RATE	COST	COST	
	Maintenace Worker III	3	8	28.64	687.36		
	Maintenace Worker I	1	8	19.28	154.24		
	CDEWLEGELI	1	1.6		0.41.60	(20/	
	CREW TOTAL	4	16		841.60	63%	
EQUIP	MENT			HOURLY		% TOTAL	
CODE	CLASS	QTY	HOURS	RATE	COST	COST	
	Road Grader	1	8	28.00	224.00		
	Steel Roler	1	8	20.00	160.00		
	Water truck	1	8	10.00	80.00		
	Pickup	1	8	4.00	32.00		
	EQUIPMENT TOTAL	4	32		496.00	37%	
	EQUITMENT TOTAL		32		470.00	3770	
MATEI	RIALS		UNIT			% TOTAL	
CODE	CLASS	QTY	COST		COST	COST	
	MATERIALS TOTAL	0	0		0.00	0%	
	•						
	CONTRACT SERVICES				0.00	0%	
	SUMMARY:						
	TOTAL DAILY COST				1,337.60		
	AVERAGE DAILY ACCO	MPLISH	IMENT		12 pass miles		
	UNIT COST (\$/UNIT)				111.47		

ACTIVITY NAME: GRAVEL REPLACEMENT /

RE-GRAVELING

ACTIVITY CODE: 313 (542.313)

ACTIVITY DESCRIPTION: Blading and compacting gravel roads to restore cross section and grade, with the addition of crushed or screened rock to fill low spots and replace lost material.

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE			X	X						X	X	

SCHEDULING CONSIDERATIONS: Perform on areas with severe potholes, washboard, rutting, raveling (loss of fines), or base rock showing.

PERSO	NNEL		WORK CONSI	DERATIONS						
CODE	CLASS	QTY	1. Regraveling	is performed who	en planned					
L203	Maint Worker III	4			lost a considerable					
L202	Maint Worker II	2	amount of gravel							
			1 1	sign as necessary	V					
			4. Water road t	hroughout opera	tion					
EQUIP	MENT		5. Blade surfac	e material from 1	oad edges to center					
CODE	CLASS	QTY	6. Spread grave	el along center						
E101	Grader	1	7. Blade and sn	nooth to proper c	rown and grade					
E102	Pickup	1	8. Compact sur	face and remove	signs					
E103	Dump Truck	3								
E110	Steel Roller	1	REFERENCE A	ND SAFETY						
E105	Water truck	1								
E106	Loader	1								
MATER										
CODE	CLASS	QTY								
M301	5/8" crushed rock	150 cy								
	GE DAILY ACCOM		MAINTENANO							
QUANT	TITY WORK U	Y WORK UNIT FEATURE		UNIT COD						
	150 cubic yara	ls	gravel road	miles						
	ING GUIDELINE AI	PPROVAL								
BY:			EFFECTIVE D	ATE:	PREV:					

ACTIVITY NAME: GRAVEL REPLACEMENT/RE-GRAVELING

ACTIVITY CODE: 313

MEASUREMENT UNIT: cubic yards

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	4	8	28.64	916.48	
L202	Maint Worker II	2	8	22.36	357.76	
	CREW TOTAL	6	16		1,274.24	31%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E101	Grader	1	8	28.00	224.00	
E102	Pickup	1	8	4.00	32.00	
E103	Dump Truck	3	8	21.00	504.00	
E110	Steel Roller	1	8	20.00	160.00	
E105	Water truck	1	8	10.00	80.00	
E106	Loader	1	8	4.00	32.00	
	EQUIPMENT TOTAL	8	48		1,032.00	25%
MATEI	RIALS		UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M301	5/8" crushed rock	150	12.00		1,800.00	
	MATERIALS TOTAL	150	12.00		1,800.00	44%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				4,106.24	
	AVERAGE DAILY ACCO	MPLISH	IMENT			oic yards
	UNIT COST (\$/UNIT)				27.37	

ACTIVITY NAME: POTHOLE REPAIR

ACTIVITY CODE: 321 (542.321)

ACTIVITY DESCRIPTION: Patching asphalt pavement with cold or hot mix to repair potholes, localized depressions, breaks and other irregularities in paved surfaces.

MON	NTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SCHI	EDULE	X	X	X	X						X	X	X	
SCHEDULING CONSIDERATIONS: Perform work as needed. Generally, potholes should be repaired as soon as possible.														
PERSO I	NNEL					WORK CONSIDERATIONS								
CODE	CLASS			QTY		1. Plac	e signs	and sa	fety der	rices as	necess	ary		
L202	Maint Wor	kder II		2		2. Reri	_	•				•		
		•	·		•	3. Ensi	ure side	es of pa	tchh ar	ea are 1	vertical			

			4. Place maintenance rock to within 2" of surface
			5. Place mix in hole and compact. Finish 1/2" above
EQUIPM	ENT		surrounding surface to allow for further compaction
CODE	CLASS	QTY	6. Sweep loose or excess material from surface

l	EQUITM	12111		surrounding surface to allow for further compaction
	CODE	CLASS	QTY	6. Sweep loose or excess material from surface
	E107	Patch Truck	1	7. Remove signs and safety devices
ı				

	REFERENCE AND SAFETY

MATER	RIALS	
CODE	CLASS	QTY
M302	cold mix	2 ton

AVERAGE DAILY ACCOMPLISHMENT				MAINTENANCE FEATURE INVENTORY			
QUANTI	QUANTITY WORK UNIT			FEATURE	UNIT	CODE	
2 - 6		tons	-	paved road	miles		

DT	ANNING	CHIDELINE	ADDDOVAI
ĽL.	ANNING	GUIDELINE	APPROVAL

BY: EFFECTIVE DATE: PREV:

ACTIVITY NAME: POTHOLE REPAIR

ACTIVITY CODE: 321

MEASUREMENT UNIT: ton

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L202	Maint Worker II	2	8	28.64	458.24	
	CREW TOTAL	2	8		458.24	76%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E107	Patch truck	1	8	8.00	64.00	
	EQUIPMENT TOTAL	1	8		64.00	11%
MATE	PIAI S		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M302	Cold mix	2	40.00		80.00	
	MATERIALS TOTAL	2	40.00		80.00	13%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				602.24	
	AVERAGE DAILY ACCO	MPLISH	IMENT		2 ton	
	UNIT COST (\$/UNIT)				301.12	

ACTIVITY NAME: CRACK SEALING

ACTIVITY CODE: *322 (542.322)*

ACTIVITY DESCRIPTION: Cleaning, filling and sealing cracks in paved surfaces to prevent the passage of water into the base or subbase of the road. Not designed for use on areas of alligator cracking or where surface shows signs of base failure.

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X			X	X	X	X

SCHEDULING CONSIDERATIONS: Perform work to prevent water from penetrating and damaging the roadway surface. Performed on cracks greater than 1/4" wide. Perform when temperature is above 50 F and dry. Sand seal after application.

PERSO			ı ajier appiicaii	WORK CONSI	DERATIONS		
CODE	CLASS		QTY	1. Place safety s	signs and device	2S	
L202	Maint Wor	ker II	3	2. Clean cracks of	_		
				3. Fill cracks wit	th seal material		
				4. Cover crack fi	iller lightly with	sand	
				5. Remove safety	signs and device	ces	
EQUIP	MENT						
CODE	CLASS		QTY				
E102	Pickup		1				
E108	Air compre	essor	1				
E107 Patch truck 1			1	REFERENCE A	AND SAFETY		
MATER							
CODE	CLASS		QTY				
M303	Liquid cra	ck filler	100 gal				
M304	sand						
			LISHMENT	MAINTENANO		INVENT	1
QUANT		WORK UN	NIT	FEATURE	UNIT		CODE
	100 - 200 g	gallons		paved road	miles		
PI A NN	 ING GUIDI	CLINE API	PROVAL				
BY:	IIIO OUIDI		INOVAL	EFFECTIVE D	ΔTE·	PRE	V•

ACTIVITY NAME: CRACK SEALING

ACTIVITY CODE: 322

MEASUREMENT UNIT: gal

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E 202	Maint Worker II	3	8	28.64	687.36	
	CREW TOTAL	3	8		687.36	65%
EQUIPI	MENT			HOURLY		% TOTAI
CODE		QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00	
E108	Patch truck	1	8	10.00	80.00	
E107	Air compressor	1	8	6.00	48.00	
	EQUIPMENT TOTAL	3	24		160.00	15%
	CLASS					
MATEI			UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M303	crack sealer	100	2.00		200.00	
M304	sand	2	9.00		18.00	
	MATERIALS TOTAL	102	11.00		218.00	20%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				1,065.36	
	AVERAGE DAILY ACCO	MPLISH	IMENT		100 gal	
	UNIT COST (\$/UNIT)				10.65	

ACTIVITY NAME: BLADE PATCHING

ACTIVITY CODE: 323 (542.323)

ACTIVITY DESCRIPTION: Placing hot asphalt or emulsion mix to level surface irregularities and/or failures, settlement, and depressions

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE						X	X	X	X			

SCHEDULING CONSIDERATIONS: Normally performed prior to seal coating or overlay. Also done to repari surface irregularities. Blade patching is performed at least 3 weeks before seal coating or overlay.

overlay.					
PERSO	NNEL		WORK CONSI	DERATIONS	
CODE	CLASS	QTY	1. Place signs at	nd safety devices	as necessary
L203	Maint Worker III	5	2. Remove all lo		_
L202	Maint Worker II	3	3. Apply tack co	•	V
L205	Flagger	2	4. Place, spread		in 1" layer
			5. Compact betw	veen layers with	steel roller; roll layers
EQUIP	MENT		with rubber-tire	•	•
CODE	CLASS	QTY	6. Finish patch f	lush with existin	g pavement surface
E103	Dump trucks	3	7. Remove signs		
E101	Grader	1			
E109	Distributor/Tack truck	: 1	REFERENCE A	AND SAFETY	
E102	Pickup	3			
E110	Steel roller	1			
E111	Plate compactor	1			
MATE		•			
CODE	CLASS	QTY			
M301	Asphalt/Emulsion Mix	150 ton			
M305	Tack oil	150 gal			
AVERA	GE DAILY ACCOMP	LISHMENT	MAINTENANO	CE FEATURE I	INVENTORY
QUANT	CITY WORK UN	IIT	FEATURE	UNIT	CODE
	150 - 300 tons		paved road	miles	
PLANN	ING GUIDELINE API	PROVAL		•	•
BY:			EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: BLADE PATCHING

ACTIVITY CODE: 323

MEASUREMENT UNIT: ton

PERSO	NNEL/CREW COSTS			HOURLY		% T(
CODE	CLASS	QTY	HOURS	RATE	COST	CC
L203	Maint Worker III	5	8	28.64	1,145.60	
L202	Maint Worker II	3	8	22.36	536.64	
L201	Maint Worker I	2				
	CREW TOTAL	10	16		1,682.24	19%
EQUIP	MENT			HOURLY		% TO
CODE	CLASS	QTY	HOURS	RATE	COST	$ \frac{1}{\cos}$
E103	Grader	1	8	28.00	224.00	
E101	Pickup	3	8	4.00	96.00	
E109	Dump Truck	3	8	21.00	504.00	
E102	Steel Roller	1	8	20.00	160.00	
E110	Distributor/Tack truck	1	8	60.00	480.00	
E111	Plate compactor	1	8	3.00	24.00	
E112	Broom	1	8	35.00	280.00	
	EQUIPMENT TOTAL	11	56		1,768.00	20%
MATER	RIALS		UNIT			% TO
CODE	CLASS	QTY	COST		COST	CO
M301	Hot Mix Class G	150	35.00		5,250.00	
M305	Tack oil	150	0.80		120.00	
	MATERIALS TOTAL	300	35.80		5,370.00	61%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				8,820.24	
	AVERAGE DAILY ACCO	OMPLISH	MENT		150 ton	

NT A I	Ì
DTAL	
ST	
131	
	1
	1
	1
	1
	1
DTAL	
ST	
NTC 4 T	1
)TAL	
ST	
31	
	1
	1
	1
	1
	1
	1
	1
	1
	i

MONTHLY

BY:

WASHINGTON COUNTIES Maintenance Management MAINTENANCE ACTIVITY PLANNING GUIDELINE

ACTIVITY NAME: SEAL COATING (Bituminous Surface Treatment)

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

ACTIVITY CODE: 324 (542.324)

ACTIVITY DESCRIPTION: Application of emulsified asphalt material and aggregate on paved roadways to seal the surface, restore surface life, flexibility and skid resistance.

IVIOIV		JAIN	LED	IVIAIN	AII	AIR MAI JON JUL AUG SEI JUCI NOV DE							DEC		
SCHI	EDULE					X X X									
SCHEDU	ULING CO	NSIDI	ERATI	ONS:	Seal c	oating	is typcio	ally per	formed	on a 5	-8 year	rotatio	n.		
Roadway	failure rep	airs, pa	atching,	pre-le	eling a	ind swe	eping a	re com	pleted p	orior to	seal co	ating.			
Temperat	ture should	be abo	ve 60 F	•											
PERSON	NEL					WORK CONSIDERATIONS									
CODE	CLASS			QTY		1. Sweep and clean prior to application									
L209	Superviso	r		1		2. Establish traffic controldetour or 30 min. pilot car									
L203	Maint Wo	rker III	r	5		<i>3. App</i>	ly liquid	d aspha	elt at .43	5 gal/sq	yd for	emulsio	ons 4.		
L202	Maint Wo	rker II		11		Spread aggregate uniformly at approx 30 lbs/sq yd 5.									
L201	Maint Wo	rker I		4		Raker follows chipspreader and levels gravel 6.									
EQUIPM	MENT					Set by rolling immediately after application 7.									
CODE	CLASS			QTY		Control asphalt and aggregate to ensure aggregate									
E103	Dump true	cks		4		retention without bleeding									
E112	Rubber tir	red roll	er	1		8. App	roximai	tely 5 d	ays afte	er comp	letion,	broom (any		
E109	Distribute	or		1		excess	aggreg	ate froi	n road.						
E115	Chip spre	ader		1		REFEI	RENCE	AND	SAFET	Ϋ́					
E102	Pickup			2											
E106	Loader			1											
E105	Water true			1		ļ									
E112	Self prope	elled bro	oom	1											
MATER				T		ļ									
CODE	CLASS			QTY											
M307	CRS2 or C		mul	15,000											
M301	3/8" - 5/8			400	cy										
M311	centerline														
	GE DAILY				ENT			NCE F		RE IN	VENT				
QUANT:		1	K UNI	<u> </u>		FEAT			UNIT			CODE			
3 road miles						paved	road		miles						
		<u></u>													
PLANNI	NG GUID	ELINE	L APPF	<u>ROVAI</u>	1	I					•				

EFFECTIVE DATE:

PREV:

ACTIVITY NAME: SEAL COATING (Bituminous Surface Treatment)

ACTIVITY CODE: 324

MEASUREMENT UNIT: road mile

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL					
CODE	CLASS	QTY	HOURS	RATE	COST	COST					
L203	Maint Worker III	5	8	28.64	1,145.60						
L202	Maint Worker II	11	8	22.36	1,967.68						
L201	Maint Worker I	4	8	20.00	640.00						
L209	Supervisor	1	8	30.00	240.00						
	CREW TOTAL	21	32		3,993.28	25%					
EQUIP	MENT			HOURLY		% TOTAL					
CODE	CLASS	QTY	HOURS	RATE	COST	COST					
E103	Distributor	1	8	75.00	600.00						
E112	Pickup	6	8	4.00	192.00						
E109	Dump Truck	6	8	21.00	1,008.00						
E115	Rubber tired roller	1	8	20.00	160.00						
E102	Water truck	1	8	10.00	80.00						
E106	Chip spreader	1	8	90.00	720.00						
E105	Loader	1	8	35.00	280.00						
E112	Broom	1	8	35.00	280.00						
	EQUIPMENT TOTAL	18			3,040.00	19%					
MATEI	RIALS		UNIT			% TOTAL					
CODE	CLASS	QTY	COST		COST	COST					
M307	CRS2 or CMS2 emul	15000	0.10		1,500.00						
M301	3/8" - 5/8" rock	400	18.00		7,200.00						
M311	centerline markers										
	MATERIALS TOTAL				8,700.00	55%					
	CONTRACT SERVICES	,			0.00	0%					
	SUMMARY:					· · ·					
	TOTAL DAILY COST	15,733.28									
	AVERAGE DAILY ACCO	OMPLISH	MENT		3 road	d mile					
	UNIT COST (\$/UNIT) 5,244.43										
		324 S	eal Coat (B	ST) cost	, ,						

ACTIVITY NAME: SHOULDER BLADING

ACTIVITY CODE: *331* (*542.331*)

ACTIVITY DESCRIPTION: Grading of gravel shoulder with a motor grader to restore line and slope

MO	NTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCH	EDULE				X	X							
SCHED	ULING C	ONSIDI	ERATI	ONS:	Work	is perfo	rmed w	vhen sh	oulder (drop of	f exceed	ds 1" or	when
extensiv	e rutting, er	osion, o	r loss d	of mater	ials ex	ists. Do	ne to p	rovide	a unifo	rm and	level sh	oulder,	
natchea	to edge of	paved si	ırface.	Perforn	ned pri	or to ap	plicatio	on of he	erbicide	S.			
PERSO	NNEL					WORI	K CON	ISIDEI	RATIO	NS			
CODE	CLASS			QTY		1. Pla	ce safe	ty signs	and de	vices a	s neces	sary	
L203	Maint We	orker III		2		2. Grade and shape with grader using two or more							
L202	Maint We	orker II		2		passes	per sho	oulder i	mile				
						7			terial is				
						71					vement	edge	
EQUIP1	1			•		5. Rem	ove saj	fety sigi	ns and d	devices			
CODE	CLASS			QTY									
E101	Grader			1									
E102	Pickup			1									
E112	Self prop	elled bro	oom	1		REFE	RENC	E AND	SAFE	TY			
						_							
						_							
	NATO					_							
MATEI CODE	CLASS			QTY		_							
CODE	CLASS			Q11		_							
						_							
						_							
						-							
						1							
AVERA	GE DAIL	Y ACC	OMPL	ISHME	ENT	MAIN	TENA	NCE F	EATU	RE IN	VENT(ORY	
QUANT		WOR				FEAT			UNIT			CODE	2
	4	should				should			miles				
PLANN	ING GUII	ELINE	APPF	ROVAL	1	•							
BY:						EFFE							

ACTIVITY NAME: SHOULDER MAINTENANCE

ACTIVITY CODE: 331

MEASUREMENT UNIT: shoulder mile

PERSO	NNEL/CREW COSTS			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E203	Maint Worker III	2	8	28.64	458.24	
E202	Maint Worker II	2	8	23.00	368.00	
	CREW TOTAL	4	16		826.24	61%
	•					
EQUIP				HOURLY	Lasami	% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E101	Grader	<u> </u>	8	28.00	224.00	
E102	Broom	1	8	35.00	280.00	
E112	Pickup		8	4.00	32.00	
	EQUIPMENT TOTAL	3	24		536.00	39%
	EQUIPMENT TOTAL	3			330.00	39%
MATE	RIALS		UNIT			% TOTA
CODE	CLASS	QTY	COST		COST	COST
	MATERIALS TOTAL	0	0.00		0.00	0%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST		1,362.24			
	AVERAGE DAILY ACCO		4 s	houlder mile		
	UNIT COST (\$/UNIT)				340.56	

ACTIVITY NAME: SHOULDER REPAIR

ACTIVITY CODE: 332 (542.332)

ACTIVITY DESCRIPTION: Patching shoulder irregularities with granular material.

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X								X	X

SCHEDULING CONSIDERATIONS: Work is done to re-establish shoulder width, elevation and slope to allow proper road drainage and prevent shoulder erosion.

PERSO	NNEL		WORK CONSI	DERATIONS	
CODE	CLASS	QTY	1. Place safety	signs and devices	as necessary
L203	Maint Worker III	2		nal material as n	=
L202	Maint Worker II	2	3. Compact grain	nular materialg	ravel should be even
			with pavement e	edge	
			4. Remove exces	ss material from p	oavement edge
EQUIP	MENT		5. Remove safet	y signs and device	es
CODE	CLASS	QTY			
E103	Dump trucks	1			
E102	Pickup	1			
E112	Self propelled broom	1	REFERENCE A	AND SAFETY	
1					
MATER		1			
CODE	CLASS	QTY			
M301	Gravel	20 cy			
<u> </u>					
<u> </u>					
AVERA	GE DAILY ACCOM	PLISHMENT	MAINTENAN	CE FEATURE II	NVENTORY
QUANT	TITY WORK U	NIT	FEATURE	UNIT	CODE
	20 cubic yard	S	shoulder	miles	
PLANN	ING GUIDELINE AP	PROVAL			
BY:			EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: SHOULDER REPAIR

ACTIVITY CODE: 332

MEASUREMENT UNIT: cubic yards

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E203	Maint Worker III	2	8	28.64	458.24	
E202	Maint Worker II	2	8	22.36	357.76	
	CREW TOTAL	4	16		816.00	53%
	CREW IUIAL	4	10		810.00	3370
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E103	Dump Truck	1	8	21.00	168.00	
E102	Pickup	1	8	4.00	32.00	
E112	Loader	1	8	35.00	280.00	
		2	2.4		400.00	210/
	EQUIPMENT TOTAL	3	24		480.00	31%
MATEI	RIALS		UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M301	3/4" crushed rock	20	12.00		240.00	
					2.10.00	1.50/
	MATERIALS TOTAL	20	12.00		240.00	16%
	CONTRACT SERVICES				0.00	0%
	CONTRACT SERVICES				0.00	070
	SUMMARY:					
	TOTAL DAILY COST		1,536.00			
	AVERAGE DAILY ACCO			ic yards		
	UNIT COST (\$/UNIT)				76.80	

ACTIVITY NAME: OTHER ROAD MAINTENANCE

ACTIVITY CODE: *390* (*542.390*)

ACTIVITY DESCRIPTION: Any other road maintenance activity

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X
SCHEDULING CO	NSIDI	ERATI	ONS:	As need	ded							

PERSO	NNEL			WORK CONSI	DERATIONS		
CODE	CLASS		QTY	1. Place safety s	igns and devices	as neces	sary
L202	Maint Wo	rker II	2		cessary labor, eq		
				materials for typ	pe of work planne	ed	
				3. Perform activ	rity as needed		
				4. Clean work a	rea		
EQUIP	MENT			5. Remove safety	y signs and devic	es	
CODE	CLASS		QTY				
L102	Pickup	1	1				
				DEFEDENCE	AND CAREERY		
				REFERENCE A	AND SAFETY		
MATER	NIAI C			_			
	1	I	OTN	_			
CODE	CLASS		QTY	_			
M391	Misc	Ī	20				
				_			
	+			_			
AVERA	GE DAILY	ACCOMPL	ISHMENT	MAINTENANO	CE FEATURE I	NVENT	ORY
QUANT	TTY	WORK UNI	T	FEATURE	UNIT		CODE
	16	hours		road	miles		
	ING GUID	ELINE APPI	ROVAL		ATE	DDEX	7
BY:				EFFECTIVE D	AIE:	PREV	' :

390 Other Road Maint

ACTIVITY NAME: OTHER ROAD MAINTENANCE

ACTIVITY CODE: 390

MEASUREMENT UNIT: hour

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L202	Maint Worker II	2	8	22.36	357.76	
	CREW TOTAL	2	8		357.76	87%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00	
	EQUIPMENT TOTAL	1	8		32.00	8%
	EQUITMENT TOTAL	1	O		32.00	0 / 0
MATER	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M391	Misc road materrials	20	1.00		20.00	
	MATERIALS TOTAL	20	1.00		20.00	5%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				409.76	
	AVERAGE DAILY ACCO	<u>)MPLISH</u>	IMENT		16 hou	r
	UNIT COST (\$/UNIT)				25.61	

ACTIVITY NAME: DITCHING WITH GRADER

ACTIVITY CODE: 411 (542.411)

ACTIVITY DESCRIPTION: Clearing, cleaning and shaping ditch flow lines to ensure proper drainage. Includes clearing and cleaning culvert areas.

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE					X	X	X	X	X			
SCHEDULING CONSIDERATIONS: Clean dithces and culverts before flow is restricted or												
obstructed. Correct culvert erosion at inlet and outlet and loss of riprap and bank protection.												

PERSO	NNEL			WORK CONS	IDERATIONS	
CODE	CLASS		QTY	1. Place safety s	signs and devices	as necessarv
L203	Maint Wo	rker III	2	11	proper shape and	· · · · · · · · · · · · · · · · · · ·
L202	Maint Wo	rker II	2	3. Avoid underc	• •	
					kslope if necessary	y
						erial to disposal site
EQUIP	MENT					clean inlet/outlet
CODE	CLASS		QTY	 11	50' beyond culver	
E101	Grader		1	7. Clean area a	•	
E102	Pickup		1		ty signs and device	es
E112	Broom		1			
				REFERENCE	AND SAFETY	
MATER	RIALS					
CODE	CLASS		QTY			
AVERA	GE DAILY	ACCOMPL	ISHMENT	MAINTENAN	CE FEATURE II	NVENTORY
QUANT	TTY	WORK UNI	T	FEATURE	UNIT	CODE
	2 - 4	ditch miles		ditch	miles	
PLANN	ING GUID	ELINE APP	ROVAL	-		
BY:				EFFECTIVE D	DATE:	PREV:

ACTIVITY NAME: DITCHING WITH GRADER

ACTIVITY CODE: 411

MEASUREMENT UNIT: ditch mile

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	2	8	28.64	458.24	
L202	Maint Worker II	2	8	22.36	357.76	
			1.6		21.6.00	6001
	CREW TOTAL	4	16		816.00	62%
EQUIP	MENT			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E101	Grader	1	8	28.00	224.00	
E102	Pickup	1	8	4.00	32.00	
E112	Broom	1	8	30.00	240.00	
	EQUIPMENT TOTAL	3	24		496.00	38%
MATEI	DIALC		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	
CODE	CHASS	VII	COST		2051	
	MATERIALS TOTAL	0	0.00		0.00	0%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				1,312.00	
	AVERAGE DAILY ACCO	MPLISH	IMENT		3 ditc	h mile
	UNIT COST (\$/UNIT)				437.33	

BY:

WASHINGTON COUNTIES Maintenance Management MAINTENANCE ACTIVITY PLANNING GUIDELINE

ACTIVITY NAME: DITCHING WITH DITCHER/BACKHOE

ACTIVITY CODE: 412 (542.412)

ACTIVITY DESCRIPTION: Clearing, cleaning and shaping ditch, front slope and lower back slope with a front end loader, backhoe or excavator.

	NTHLY	JAN	FEB	MAR	APR	MAY		JUL	AUG		OCT	NOV	DEC
SCH	EDULE					X	X	X	X	X			
SCHED	ULING CO	ONSIDI	ERATI	ONS:	Used	on deep	ditche.	s. Sche	eduled a	luring 1	minimu	m watei	·flow.
PERSO	NNEL					WORI	K CON	SIDEI	RATIO	NS			
CODE	CLASS			QTY		1. Plac	ce safet	y signs	and de	vices a	s necess	sary	
L203	Maint Wo	orker III		4		2. Cut	ditch to	o prope	r shape	and gr	rade foi	·flow	
L202	Maint Wo	orker II		2		3. Avo	id unde	rcuttin	g of slo	pes			
						4. Reg	rade bo	ackslop	e if nec	essary			
						5. Loa	d and h	aul uns	suitable	mater	ial to di	sposal s	site
EQUIP	MENT					6. Whe	en clear	ning at	culvert	ends, c	lean in	let/outle	et –
CODE	CLASS			QTY		ditches	s at lea.	st 50' b	eyond c	culvert	ends		
E114	Excavato		oe	1			an area	-					
E103	Dump tru	ıcks		2		8. Rem	iove saj	fety sig	ns and o	devices	•		
E102	Pickup 2												
						REFE	RENC	E AND	SAFE	TY			
						_							
MATER	TAT C					1							
CODE	CLASS			QTY		1							
CODE	CEIISS			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1							
						1							
	1					1							
						1							
						1							
AVERA	GE DAIL	Y ACC	OMPL	ISHMI	ENT	MAIN	TENA	NCE F	EATU	RE IN	VENT	ORY	
QUANT	TTY	WOR	K UNI	T		FEAT	URE		UNIT			CODE	2
	600	ditch fe	eet			ditch			miles				
PLANN	ING GUID	ELINE	APPF	ROVAL	1								

EFFECTIVE DATE:

PREV:

ACTIVITY NAME: DITCHING WITH DITCHER

ACTIVITY CODE: 412

MEASUREMENT UNIT: ditch feet

PERSO	NNEL/CREW COSTS			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	4	8	28.64	916.48	
L202	Maint Worker II	2	8	22.36	357.76	
	CREW TOTAL	6	16		1,274.24	59%
EQUIP	MENT			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E114	Excavator/ditcher	1	8	60.00	480.00	
E103	Pickup	2	8	4.00	64.00	
E102	Dump Truck	2	8	21.00	336.00	
	EQUIPMENT TOTAL	5	24		880.00	41%
MATE	RIALS		UNIT			% TOTA
CODE	CLASS	QTY	COST		COST	COST
	MATERIALS TOTAL	0	0.00		0.00	0%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				2,154.24	
	AVERAGE DAILY ACCO	DMPLISH	IMENT			tch feet
	UNIT COST (\$/UNIT)				3.59	

ACTIVITY NAME: CULVERT CLEANING

ACTIVITY CODE: 421 (542.421)

ACTIVITY DESCRIPTION: Removing obstructions and debris from culverts, inlet channel and outlet channel. Straightening bent ends and restoring headwalls and eroded areas around culvert inlet and outlet. Record condition in culvert log while performing routine cleaning.

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: This is a preventative maintenance activity, but can also be used during flood related activities to monitor problem area culverts. Also for required maintenace activities identified during routine checks.

PERSO:	NNEL			WORK CONSIDERATIONS					
CODE	CLASS		QTY	1. Locate pickup	safelv off roady	wav			
L203	Maint Wor	ker III	1	2. Remove and a		•	from culvert		
L202	Maint Wor	ker II	1	and/or from inle	-	J			
				3. Inspect culver		ther clean	ing or repair		
				is needed					
EQUIP I	MENT			4. Notify supervi	isor if further we	ork needea	l		
CODE	CLASS		QTY						
E102	Pickup		1						
				REFERENCE A	AND SAFETY				
MATER									
CODE	CLASS		QTY						
				_					
				_					
				_					
AVERA	GE DAILY	ACCOMPI	LISHMENT	MAINTENANO	CE FEATURE	INVENT	ORY		
QUANT	TTY	WORK UN	IT	FEATURE	UNIT		CODE		
	10 - 30	culverts		culvert	each				
	ING GUIDI	ELINE APP	ROVAL	_					
BY:				EFFECTIVE D	ATE:	PREV	:		

ACTIVITY NAME: CULVERT CLEANING

ACTIVITY CODE: 421

MEASUREMENT UNIT: culverts

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	1	8	22.36	178.88	
	CREW TOTAL	2	16		408.00	93%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00	
	EQUIPMENT TOTAL	1	8		32.00	7%
MATEI	RIALS	<u> </u>	UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
	MATERIALS TOTAL	0	0.00		0.00	0%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				440.00	
	AVERAGE DAILY ACCO	MPLISE	IMENT		20 culv	verts
	UNIT COST (\$/UNIT)				22.00	

ACTIVITY NAME: CULVERT REPAIR/REPLACEMENT

ACTIVITY CODE: 422 (542.422)

ACTIVITY DESCRIPTION: *Install, replace or repair culverts to provide for drainage.*

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE					X	X	X	X	X			
SCHEDULING CONSIDERATIONS:				Work	nerforn	and to r	estore i	or impr	ove roo	dway d	rainaga	,

SCHEDULING CONSIDERATIONS: Work performed to restore or improve roadway drainage. Normally done to enlarge existing culverts or catch basins, replace deteriorated pipe or to open up new drainage.

PERSO	NNEL		WORK CONSI	DERATIONS	
CODE	CLASS	QTY	1. Place safety s	signs and devices	as necessary
L203	Maint Worker III	2		_	culvert or portion of
L202	Maint Worker II	4	culvert to be rep	paired	1 0
			3. Prepare bed		
			4. Backfill and c	compact material	in 12"-15" lifts
EQUIP	MENT		5. Repair roadw	ay surface	-
CODE	CLASS	QTY	6. Clean work a	rea	
E106	Loader	1	7. Remove safet	y signs and devic	es
E103	Dump truck	2			
E102	Pickup	2	REFERENCE A	AND SAFETY	
MATER					
CODE	CLASS	QTY			
M301	backfill gravel	40 cy			
M308	culvert	40 ft			
M391	misc materials	40 \$			
AVERA	GE DAILY ACCON	APLISHMENT	MAINTENAN	CE FEATURE II	NVENTORY
QUANT	TITY WORK	UNIT	FEATURE	UNIT	CODE
	40 lineal fee	t	culvert	each	
PLANN	ING GUIDELINE A	PPROVAL			
BY:			EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: CULVERT REPAIR/REPLACEMENT

ACTIVITY CODE: 422

MEASUREMENT UNIT: lineal feet

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
	Maint Worker III	2	8	28.64	458.24	
	Maint Worker II	4	8	22.36	715.52	
	CREW TOTAL	6	16		1,173.76	41%
EQUIP		O.T.Y.	HOUDG	HOURLY	COCT	% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E106	Dump Truck	2	8	21.00	336.00	
E103	Pickup	2	8	4.00	64.00	
E102	Loader	1	8	35.00	280.00	
	EQUIDMENT TOTAL	5	24		690.00	24%
	EQUIPMENT TOTAL	3	24		680.00	24%
MATEI	RIALS		UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M301	backfill gravel	40	12.00		480.00	
M308	culvert	40	12.00		480.00	
M391	misc materials	20	1.00		20.00	
	MATERIALS TOTAL	100	25.00		980.00	35%
		•				•
	CONTRACT SERVICES				0.00	0%
	SUMMARY:				2 020 7	
	TOTAL DAILY COST				2,833.76	1.0
	AVERAGE DAILY ACCO	<u>)MPLISH</u>	IMENT		40 line	al feet
	UNIT COST (\$/UNIT)				70.84	

ACTIVITY NAME: CATCH BASIN CLEANING

ACTIVITY CODE: 430 (542.430)

ACTIVITY DESCI	RIPTIC	N: Cl	ean cato	ch basii	η								
MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X	
SCHEDULING CO	NSIDI	ERATI	ONS:	Work	perforn	ned to r	estore	or impr	ove car	pacity of	f draina	age	
structure								1	1	, ,		J	
PERSONNEL					WOR	K CON	ISIDEI	RATIO	NS				
CODE CLASS			QTY		h					s necess	sarv		
L203 Maint. Wo	orker II	I	2		1. Place safety signs and devices as necessary 2. Clean catch basin manually and/or with Vactor								
L202 Maint. Wo			2		truck				<i>y</i>				
					3. Clean work area								
					11			ns and	devices	,			
EQUIPMENT					1		,,8						
_ `					1								
	Vactor truck 1				1								
E103 Dump true			1										
E102 Pickup			1		REFERENCE AND SAFETY								
					1								
					1								
MATERIALS]								
CODE CLASS			QTY										
]								
]								
]								
]								
	_			_]								
AVERAGE DAILY	ACC	OMPL	ISHMI	ENT	MAIN	TENA	NCE F	EATU.	RE IN	VENT(ORY		
QUANTITY	WOR	K UNI	T		FEAT	URE		UNIT			CODE		
20	catch b	pasins			catch b	pasin		each					
·	DI INT	ADDI	ROVAL							<u> </u>			

BY:

EFFECTIVE DATE:

PREV:

ACTIVITY NAME: CATCH BASIN CLEANING

ACTIVITY CODE: 430

MEASUREMENT UNIT: catch basin

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI	
CODE	CLASS	QTY	HOURS	RATE	COST	COST	
L203	Maint Worker III	2	8	28.64	458.24		
L202	Maint Worker II	2	8	22.36	357.76		
	CREW TOTAL	4	16		816.00	58%	
	CKEW IUIAL	4	10		810.00	3670	
EQUIP	MENT			HOURLY		% TOTAL	
CODE	CLASS	QTY	HOURS	RATE	COST	COST	
E103	Dump Truck	1	8	21.00	168.00		
E102	Pickup	2	8	4.00	64.00		
E115	Vactor	1	8	45.00	360.00		
	EQUIDATENT TOTAL	1	2.4		502.00	420/	
	EQUIPMENT TOTAL	4	24		592.00	42%	
MATEI	RIALS		UNIT			% TOTAL	
CODE	CLASS	QTY	COST		COST	COST	
					0.00		
	TALEBRAL COMMAN	0	0.00		0.00	00/	
	MATERIALS TOTAL	0	0.00		0.00	0%	
	CONTRACT SERVICES		0.00	0%			
	CONTRACT SERVICES				0.00	070	
	SUMMARY:						
	TOTAL DAILY COST	1,408.00					
	AVERAGE DAILY ACCO		ch basins				
	UNIT COST (\$/UNIT)				70.40		

MONTHLY

JAN

PLANNING GUIDELINE APPROVAL

BY:

WASHINGTON COUNTIES Maintenance Management MAINTENANCE ACTIVITY PLANNING GUIDELINE

JUL

AUG

SEP

PREV:

ACTIVITY NAME: OTHER DRAINAGE MAINTENANCE

ACTIVITY CODE: 490 (542.490)

ACTIVITY DESCRIPTION: Other drainage maintenance not covered under other activities.

FEB MAR APR MAY JUN

SCH	EDULE	X	X	X	X	X	X	X	X	X	X	X	X
SCHED	OULING CO	NSIDI	ERAT	IONS:	As ne	eded.							
PERSONNEL						WORK CONSIDERATIONS							
CODE	CLASS	1. Place safety signs and devices as necessary											
L203	Maint Wo	rker III		1		2. Take measures to ensure that no contaminants get							get
L202	Maint Worker II			1		into moving water. See Best Managemen						_	
						(BMP	Ps) for w	ork ne	ar wate	er cours	ie.		
						_							
EQUIP	MENT					_							
CODE	CLASS			QTY									
E103	Dump true	ck		1									
E102	Pickup			1									
						REFE	RENC	E ANI) SAFI	ETY			
						_							
MATEI				O.T.Y.		4							
CODE		CLASS QTY											
M391	Misc road	l materi	als	20		4							
						4							
						4							
						4							
AVERA	 \GE DAILY	ACC	OMPL	<u>l</u> ISHMI	ENT	MAIN	ITENA	NCE I	FEATU	JRE IN	VENT	ORY	
QUANTITY WORK UNIT				FEAT			UNIT			CODE	C		
16 hours					road			mile					
						_							

EFFECTIVE DATE:

ACTIVITY NAME: OTHER DRAINAGE MAINTENANCE

ACTIVITY CODE: 490

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	1	8	22.36	178.88	
	CREW TOTAL	2	16		408.00	65%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E103	Dump Truck	1	8	21.00	168.00	
E102	Pickup	1	8	4.00	32.00	
	EQUIPMENT TOTAL	2	16		200.00	32%
MATEI	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M391	Misc road materials	20	1.00		20.00	
	MATERIALS TOTAL	20	1.00		20.00	3%
	CONTRACT SERVICES			0.00	0%	
	SUMMARY:					
	TOTAL DAILY COST			628.00		
	AVERAGE DAILY ACCO	OMPLISE	IMENT		16 hou	rs
	UNIT COST (\$/UNIT)				39.25	

ACTIVITY NAME: BRIDGE/STRUCTURE MAINTENANCE

ACTIVITY CODE: 511 (542.511)

ACTIVITY DESCRIPTION: Cleaning, maintaining, repairing bridge decks, railings, superstructure and headwalls.

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE			X	X	X	X	X	X				
SCHEDIH INC CONSIDED ATIONS.				1 a vac	univad f	nom hui	daama	intonan	iaa wana	out ou a	a naada	d

SCHEDULING CONSIDERATIONS: As required from bridge maintenance report or as needed. Work method will vary on type of work required.

PERSO	NNEL		WORK CONSI	DERATIONS	
CODE	CLASS	QTY	1. Review inspec	ction reports to de	termine the need for
L203	Maint Worker III	1	cleaning and/or	•	J
L202	Maint Worker II	2	-	ssary labor crew a	nd equipment
				will vary as neede	
				igns and devices	
EQUIPN	MENT		5. Perform work		
CODE	CLASS	QTY	6. Clean area oj		
L102	Pickup	1		y signs and device	S
L103	Dump truck	1			
			REFERENCE A	AND SAFETY	
MATER	RIALS				
CODE	CLASS	QTY			
			7		
			1		
			7		
AVERA	GE DAILY ACCOM	IPLISHMENT	MAINTENANO	CE FEATURE IN	VENTORY
QUANT			FEATURE	UNIT	CODE
	24 hours	- · -	bridge	each	
PLANN	ING GUIDELINE A	PPROVAL		I	I
BY:		EFFECTIVE D	ATE:	PREV:	

ACTIVITY NAME: BRIDGE/STRUCTURE MAINTENANCE

ACTIVITY CODE: 511

PERSO	NNEL/CREW COSTS			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	2	8	22.36	357.76	
	CREW TOTAL	3	16		586.88	70%
EQUIP	MENT			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00	
E103	Dump Truck	1	8	28.00	224.00	
					0.00	
					0.00	
					0.00	
					0.00	
	EQUIPMENT TOTAL	2	16		256.00	30%
MATER	RIALS		UNIT			% TOTA
CODE	CLASS	QTY	COST		COST	COST
					0.00	
	MATERIALS TOTAL	0	0.00		0.00	0%
	CONTRACT SERVICES			0.00	0%	
	SUMMARY:					
	TOTAL DAILY COST				842.88	
	AVERAGE DAILY ACCO	MPLISH	IMENT		24	hours
	UNIT COST (\$/UNIT)				35.12	

ACTIVITY NAME: BRIDGE REPAIR

ACTIVITY CODE: 512 (542.512)

ACTIVITY DESCRIPTION: Repairing bridge decks, railings, superstructure and headwalls.

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE						X	X	X	X			

SCHEDULING CONSIDERATIONS: As required from bridge maintenance report or as needed. Work method will vary on type of work required.

PERSO	NNEL		WORK CONSI	DERATIONS	
CODE	CLASS	QTY	1. Review inspec	ction reports to det	termine the need for
L203	Maint Worker III	1	cleaning and/or	repair	
L202	Maint Worker II	2	2. Identify neces	sary labor crew ar	nd equipment
			3. Work method	will vary as neede	ed
			4. Place safety s	igns and devices	
EQUIP I	MENT		5. Perform work	as needed	
CODE	CLASS	QTY	6. Clean area of	work	
E102	Pickup	2	7. Remove safety	y signs and devices	\ddot{s}
E103	Dump truck	2			
			REFERENCE A	AND SAFETY	
1					
MATE	RIALS	•			
CODE	CLASS	QTY			
M391	Misc materials	100			
AVERA	GE DAILY ACCO	MPLISHMENT	MAINTENANO	CE FEATURE IN	VENTORY
QUANT			FEATURE	UNIT	CODE
	24 hours		bridge	each	
			3		
PLANN	ING GUIDELINE	APPROVAL			L
BY:			EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: BRIDGE REPAIR

ACTIVITY CODE: 512

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	2	8	22.36	357.76	
	CREW TOTAL	3	16		586.88	62%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00	
E103	Dump Truck	1	8	28.00	224.00	
	EQUIPMENT TOTAL	2	16		256.00	27%
				•	<u>'</u>	
MATE		O.M.Y.	UNIT		Lacami	% TOTAL
CODE M391	CLASS Misc materials	QTY 100	1.00		100.00	COST
141371	Inse materials	100	1.00		100.00	
	MATERIALS TOTAL	100	1.00		100.00	11%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				942.88	
	AVERAGE DAILY ACCO	DMPLISH	IMENT		24 hou	rs
	UNIT COST (\$/UNIT)				39.29	

ACTIVITY NAME: OTHER BRIDGE/STRUCTURE MAINTENANCE

ACTIVITY CODE: *590 (542.590)*

ACTIVITY DESCRIPTION: Other bridge repair and heavy maintenance activities.

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: As required from bridge maintenance report or as needed. Work method will vary on type of work required.

PERSO	NNEL			WORK CONSI	DERATIONS				
CODE	CLASS		QTY	1. Place safety s	igns and devices	as necessary			
L203	Maint Wor	ker III	1			o contaminants get			
L202	Maint Wor	ker II	2	into moving water. See Best Management Practices					
				(BMPs) for work	k near water cour	se			
EQUIP	<u> </u>								
CODE	CLASS		QTY	7					
E103	Dump truc	k	1]					
E102	Pickup		1						
				REFERENCE A	AND SAFETY				
				_					
MATER	DIALC			_					
CODE	CLASS		QTY						
M391	Misc mater	rials	40						
AVERA	GE DAILY	ACCOM	<u> </u>	MAINTENANO	CE FEATURE II	NVENTORY			
QUANT		WORK U		FEATURE	UNIT	CODE			
		hours		bridge	each				
PLANN	ING GUIDI	ELINE AI	PPROVAL			•			
BY:				EFFECTIVE DATE: PREV:					

ACTIVITY NAME: OTHERBRIDGE/STRUCTURE MAINTENANCE

ACTIVITY CODE: 590

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	2	8	22.36	357.76	
	CREW TOTAL	3	16		586.88	66%
	-					
EQUIPI		OTV	HOUDE	HOURLY	COST	% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00 224.00	
E103	Dump Truck	1	0	28.00	224.00	
	EQUIPMENT TOTAL	2	16		256.00	29%
MATEI	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	40	1.00		40.00	
	MATERIALS TOTAL	40	1.00		40.00	5%
	CONTRACT SERVICES			0.00	0%	
	SUMMARY:					
	TOTAL DAILY COST				882.88	
	AVERAGE DAILY ACCO	DMPLISH	IMENT		24 hou	irs
	UNIT COST (\$/UNIT)				36.79	

WASHINGTON COUNTIES Maintenance Management MAINTENANCE ACTIVITY PLANNING GUIDELINE

ACTIVITY NAME: SIDEWALK MAINTENANCE

MONTHLY JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

ACTIVITY CODE: 610 (542.610)

ACTIVITY DESCRIPTION: Minor sidewalk repair to correct spalling, chipping, grade separation, and/or broken area.

	VIHLY	JAN	4		R APR MAY JUN JUL AUG SEP OCI NOV DEC								
SCH	EDULE	X	X	X	X	X	X	X	X	X	X	X	X
SCHED	ULING CO	NSID	ERATI	ONS:	Perfo	rmed wi	hen side	ewalk c	onditio	n is a h	azard t	o pedes	trians.
PERSO	NNEL					WORK CONSIDERATIONS							
CODE	CLASS			QTY		1. Det	ermine	necess	ary cre	w, equi	pment a	ınd mat	erials
L203	Maint Wo	rker III		1		for maintenance operation							
L202	Maint Wo	rker II		1		2. Pla	ce safei	ty signs	and de	vices			
						11	-		eplace	as nece	essary		
						4. Cle	an wor	k area					
EQUIP I	1			•		6. Dispose of waste material properly							
CODE	CLASS			QTY		7. <i>Ren</i>	nove są	fety sig	ns and	devices	,		
E102	Pickup			1									
						REFE	RENC:	E AND	SAFE	TY			
						1							
						1							
						1							
MATER				OTV									
CODE	CLASS			QTY		-							
M391	Misc mate	erials		40									
						-							
						-							
	1					-							
AVEDA	CE DAILS	ZACC	OMDI	 ISHMI	TNT	MAIN	TENA	NCF E	T A TII	DE IN	VENT()DV	
	AVERAGE DAILY ACCOMPLISHMENT QUANTITY WORK UNIT						URE	TICE I	UNIT	KE III	A 171111	CODE	,
QUAITI		hours	IX U111	1		sidewa			lineal	foot		CODE	1
	10	nours				sinewa	<i>ii</i> v		iineui j	CCI			
PLANN	ING CHID	FLINE	APPI	ROVAI		<u> </u>			<u> </u>				
BY:	PLANNING GUIDELINE APPROVAL			1	EFFECTIVE DATE: PREV:								
и.	B1:					121.1.17.	CIIVE	DAII	⊿ •		1 1/12 A	•	

ACTIVITY NAME: SIDEWALK MAINTENANCE

ACTIVITY CODE: 610

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	1	8	22.36	178.88	
	CREW TOTAL	2	16		408.00	85%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00	
					0.00	
	EQUIPMENT TOTAL	1	8		32.00	7%
MATE	RIALS		UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	40	1.00		40.00	
	MATERIALS TOTAL	40	1.00		40.00	8%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				480.00	
	AVERAGE DAILY ACCO	<u>)MPLISE</u>	IMENT		16 hou	rs
	UNIT COST (\$/UNIT)				30.00	

ACTIVITY NAME: SPECIAL PURPOSE PATHS

ACTIVITY CODE: 620 (542.620)

ACTIVITY DESCRIPTION: Cutting brush, mowing or clearing path

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE				X	X	X	X	X				

SCHEDULING CONSIDERATIONS: As required

PERSO:	NNEL		WORK CONSI	DERATIONS	
CODE L203 L202 EQUIPMO CODE L102	CLASS Maint Worker I		1. Determine ne materials for mo 2. Place safety s 3. Clean, repair 4. Clean work a 6. Dispose of wo	cessary crew, equipo aintenance operation signs and devices or replace as necess	ı sary
			REFERENCE A	AND SAFETY	
MATER CODE M391	RIALS CLASS Misc materials	QTY 40			
		COMPLISHMENT		CE FEATURE INV	
QUANT		RK UNIT	FEATURE	UNIT	CODE
	16 hour	S	paths	lineal feet	
PLANN	ING GUIDELIN	NE APPROVAL			
BY:	I (3 GOIDELII	IL III I RO VIII	EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: SPECIAL PURPOSE PATHS

ACTIVITY CODE: 620

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	1	8	22.36	178.88	
	CREW TOTAL	2	16		408.00	85%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Ріскир	1	8	4.00	32.00	
	EQUIPMENT TOTAL	1	8		32.00	7%
MATER	OTAT S	<u> </u>	UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	40			40.00	
	MATERIALS TOTAL	40	1.00		40.00	8%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				480.00	
	AVERAGE DAILY ACCO	DMPLISE	IMENT		16 hou	rs
	UNIT COST (\$/UNIT)				30.00	

ACTIVITY NAME: SIGN MAINTENANCE

ACTIVITY CODE: 641 (542.641)

ACTIVITY DESCRIPTION: Maintenance of signs and traffic control devices

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: Maintain signs and traffic control devices

CODE	NNEL			WORK CONSI	DERATIONS	
CODE L206 EQUIPN CODE E119	CLASS Sign tech		QTY 2 QTY 1	1. Place safety s 2. Clean, repair accordance with manual.	igns and devices a and/or replace tra a the Uniform Traf y signs and devices	iffic signs in fic Control Device
				REFERENCE A	AND SAFETY	
MATER CODE	CLASS		QTY			
M392	sign mater	rials	100			
			 PLISHMENT		CE FEATURE IN	
QUANT		WORK U	NIT'	FEATURE signs	UNIT each	CODE
	10	signs		signs	eucn	
PLANN BY:	ING GUID	ELINE AF	PPROVAL	EFFECTIVE D	•	PREV:

ACTIVITY NAME: SIGN MAINTENANCE

ACTIVITY CODE: *641*

MEASUREMENT UNIT: signs

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L206	Sign Tech	2	8	28.64	458.24	
	CREW TOTAL	2	8		458.24	74%
EQUIP	MENT			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E119	Utility/Sign truck	1	8	8.00	64.00	
	EQUIPMENT TOTAL	1	8		64.00	10%
MATE	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M392	sign materials	100	1.00		100.00	
	MATERIALS TOTAL	100	1.00		100.00	16%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				622.24	
	AVERAGE DAILY ACCO	MPLISH	IMENT		10 sign	ıs
	UNIT COST (\$/UNIT)				62.22	

ACTIVITY NAME: GUARDRAIL REPAIR

ACTIVITY CODE: 642 (542.642)

ACTIVITY DESCRIPTION: Repair of guardrail

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: As required

PERSO	NNEL			WORK CONSI	DERATIONS	
CODE	CLASS		QTY		igns and devices as	necessary
L206	Sign tech		2	- 1 * * *	r replace guardrail i	•
				the Uniform Tra	effic Control Devices	manual.
				3. Remove safet	y signs and devices	
EQUIP	<u> </u> MENT			-		
CODE	CLASS		QTY			
E119	Sign/utilit	y truck	1	\exists		
				REFERENCE A	AND SAFETY	
				_		
MATEI	<u> </u> RIALS			+		
CODE	CLASS		QTY			
M391	guardrail	materials	100			
				_		
AVERA	GE DAILY	ACCOMP	LISHMENT	MAINTENANO	CE FEATURE INV	ENTORY
QUANT	TITY	WORK UN	VIT TIV	FEATURE	UNIT	CODE
	60	lineal feet		guardrail	lineal feet	
PLANN	ING GUID	<u> </u> ELINE AP	PROVAL			
BY:			113 , 111	EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: SIGN MAINTENANCE

ACTIVITY CODE: 640

MEASUREMENT UNIT: lineal feet

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L206	Sign Tech	2	8	28.64	458.24	
	CREW TOTAL	2	8		458.24	74%
		-				
EQUIP				HOURLY	<u> </u>	% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E119	Utility/Sign truck	1	8	8.00	64.00	
	EQUIPMENT TOTAL	1	8		64.00	10%
MATE		O TENT	UNIT		Loogni	% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M391	guardrail materials	100	1.00		100.00	
	MATERIALGEOTAL	100	1.00		100.00	1.00/
	MATERIALS TOTAL	100	1.00		100.00	16%
	CONTRACT SERVICES				0.00	0%
	CHMMADV.					
	SUMMARY: TOTAL DAILY COST				622.24	
	AVERAGE DAILY ACCO	MPLISE	IMENT		60 line	al feet
	A PERMOE DAIL! ACCO) IVII L/101.	TIVILLY I		oolille	aijeei

ACTIVITY NAME: TRAFFIC MARKINGS

ACTIVITY CODE: 643 (542.643)

ACTIVITY DESCRIPTION: Placement of traffic markings including striping and markers

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X
SCHEDULING CO	NSIDI	ERATI	ONS:	As req	juired							
PERSONNEL					WOR	K CON	ISIDEI	RATIO	NS			

PERSO	NNEL			WORK CONSI	DERATIONS					
CODE	CLASS		QTY	1. Place safety s	igns and devices as	s necessary				
L206	Sign tech		2	2. Place marking	Place markings in accordance with the Uniform					
				Traffic Control I	Devices manual.					
				3. Remove safety	signs and devices					
	<u> </u>			4						
EQUIP										
CODE	CLASS		QTY							
E119	Sign/utilit	y truck	1	4						
			+	REFERENCE A	ND SAFFTV					
				REFERENCE	IND SAFETT					
MATER	<u> </u>			+						
CODE	CLASS		QTY							
M392	misc sign	materials	900							
AVEDA	CEDAILS	7 A COOPER	T TOTTA TENTO	NA A TRIPUTAL A RIC		VENTODY				
		1	LISHMENT		EE FEATURE IN					
QUANT		WORK UN	NIT	FEATURE	UNIT	CODE				
	2000	lineal feet		paved road	mile					
DI ANINI	INC CUID		DDOWAI							
PLANN	ING GUID	ELINE AP	PKUVAL	EEEE CELVE D		DDEX				

BY: EFFECTIVE DATE: PREV:

ACTIVITY NAME: TRAFFIC MARKINGS

ACTIVITY CODE: 643

MEASUREMENT UNIT: lineal feet

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L206	Sign Tech	2	8	28.64	458.24	
	CREW TOTAL	2	8		458.24	32%
EQUIP	MENT			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E119	Utility/Sign truck	1	8	8.00	64.00	
						404
	EQUIPMENT TOTAL	1	8		64.00	4%
MATEF	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M392	Misc sign materials	900	1.00		900.00	
	MATERIALS TOTAL	900	1.00		900.00	63%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST			1,422.24		
	AVERAGE DAILY ACCO	OMPLISH	IMENT		2000 line	al feet
	UNIT COST (\$/UNIT)				0.71	

ACTIVITY NAME: SNOW & ICE CONTROL

ACTIVITY CODE: 660 (542.660)

ACTIVITY DESCRIPTION: Snow removal and application of sand and/or chemicals on roadway surfaces.

MON	THLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHI	EDULE	X	X	X	X							X	X
	U LING CO ble snowfall				-			-		ther for	ecast p	redicts	
PERSON	NNEL					WORI	K CON	ISIDEF	RATIO	NS			
CODE	CLASS			QTY		1. <i>App</i>	ly abra	sives of	r de-icii	ng cher	nical or	n planne	ed
L203	Maint Wo	rker III		1		and as	signed	routes	at spots	or con	itinuous	s locatio	ons
						2. Plo	w snow	along a	assigne	d route	s and a	s ner sn	iow
_												~ <i>F</i> - : ~ : :	

EQUIPN	MENT		
CODE	CLASS	QTY	
E103	Dump truck w/plow	1	

REFERENCE AND SAFETY

MATER	RIALS	
CODE	CLASS	QTY
M304	sand/salt mixture	
M309	anti-icing chemical	

AVERAGE DAILY	ACCOMPLI	SHMENT	MAINTENANCE F	EATURE INVENTO	ORY
QUANTITY	WORK UNIT	Γ	FEATURE	UNIT	CODE
8	hours		road	miles	

PLANNING GUIDELINE APPROVAL

BY: EFFECTIVE DATE: PREV:

ACTIVITY NAME: SNOW & ICE CONTROL

ACTIVITY CODE: 660

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
	CREW TOTAL	1	8		229.12	33%
EQUIP		.	,	HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E103	Dump Truck w/plow	1	8	28.00	224.00	
	EQUIPMENT TOTAL	1	8		224.00	32%
MATEI	DIALC		UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M304	sand	20	12.00		240.00	
M309	de-icer	20	12.00		240.00	
141307	ue-icei				+	
	MATERIALS TOTAL	20	12.00		240.00	35%
	WITTERNIES TO THE		12.00		210.00	3370
	CONTRACT SERVICES				0.00	0%
					0.00	0,0
	SUMMARY:					
	TOTAL DAILY COST				693.12	
	AVERAGE DAILY ACCO	MPLISH	IMENT		8 hou	rs

ACTIVITY NAME: STREET CLEANING

ACTIVITY CODE: 670 (542.670)

ACTIVITY DESCRIPTION: Cleaning of road surface

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: As needed

PERSO	NNEL		WORK CONSI	DERATIONS	
CODE	CLASS	QTY	1. Check equipm	nent and warning a	devices
L203	Maint Worker III	1		gigns as necessary	
L202	Maint Worker II	3		flush street to redu	ıce dust (op)
			4. Sweep area		
			5. Pick up waste	e material. Haul an	nd dispose
EQUIP	MENT		6. Remove safet	y signs	
CODE	CLASS	QTY			
E120	Vacuum Sweeper	1			
E102	Ріскир	1			
E105	Water truck	1	REFERENCE A	AND SAFETY	
E112	Broom (op)	1			
MATEI		T	_		
CODE	CLASS	QTY	4		
			4		
			4		
			4		
			4		
AVERA	 GE DAILY ACCOM	 	MAINTENANO	CE FEATURE IN	VENTORV
QUANT			FEATURE	UNIT	CODE
201111	32 hours	/1 12 2	road	miles	CODE
	32 NOWIS		, ouu	mucs	
PLANN	ING GUIDELINE A	PPROVAL	<u> </u>		1
BY:			EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: STREET CLEANING

ACTIVITY CODE: 670

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	3	8	22.36	536.64	
	CREW TOTAL	4	16		765.76	46%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E120	Vacuum sweeper	1	8	60.00	480.00	
E102	Pickup	1	8	4.00	32.00	
E105	Water truck	1	8	15.00	120.00	
E112	Broom	1	8	35.00	280.00	
	EQUIDMENT TOTAL	4	32		912.00	54%
	EQUIPMENT TOTAL	4	32		912.00	34%
MATEI	RIALS		UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
					0.00	
	MATERIALS TOTAL	0	0.00		0.00	0%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				1,677.76	
	AVERAGE DAILY ACCO	MPLISH	IMENT		32 hou	rs
	UNIT COST (\$/UNIT)				52.43	

ACTIVITY NAME: OTHER TRAFFIC MAINTENANCE

ACTIVITY CODE: 690 (542.690)

ACTIVITY DESCRIPTION: Other traffic control maintenance activities.

MON	NTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
_	EDULE	X	X	X	X	X	X	X	X	X	X	X	X
	ULING CO						71	71	71	71	71	71	71
PERSO	NNEL					WOR	K CON	SIDEI	RATIO	NS			
CODE	CLASS			QTY		1. Pla	ce safe	tv signs	s as nec	essarv			
L206	Sign tech			2		2. Per 3. Cle	form ac an arec	ctivity d a	as neede gns and	ed	S		
EQUIP													
CODE	CLASS			QTY									
E119	Sign truck	k		1		\parallel							
						REFE	RENC	E AND	SAFE	TY			
MATER				T									
CODE	CLASS			QTY									
M392	Misc sign	materio	als	60									
AVEDA	GE DAILY	VACC	OMDI	Тенмі	ZNT	MAIN	TENA	NCE E	EATU	DE IN	VENIT)DV	
QUANT			K UNI'		ואנע ד	FEAT		NCE	UNIT	KE III	VENI	CODE	1
QUANT		hours	IX UINI	1		road	UKE		miles			CODI	
	10	nours				rouu			mues				

EFFECTIVE DATE:

PREV:

PLANNING GUIDELINE APPROVAL

ACTIVITY NAME: OTHER TRAFFIC MAINTENANCE

ACTIVITY CODE: 690

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L206	Sign tech	2	8	28.64	458.24	
	CREW TOTAL	2	8		458.24	67%
EQUIP	MENT			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E119	Sign truck/Utility truck	1	8	21.00	168.00	
	EQUIPMENT TOTAL	1	8		168.00	24%
MATER	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M392	Misc sign materials	60	1.00		60.00	
	MATERIALS TOTAL	60	1.00		60.00	9%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				686.24	
	AVERAGE DAILY ACCO	DMPLISH	IMENT		16 hou	rs
	UNIT COST (\$/UNIT)				42.89	

ACTIVITY NAME: BRUSH CONTROL--MECHANICAL

ACTIVITY CODE: 712 (542.712)

ACTIVITY DESCRIPTION: Control of vegetation using brush machines

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: As required for work on road right-of-way

PERSO	NNEL			WORK CONSI	DERATIONS	
CODE	CLASS		QTY	1. Identify work	areas	
L203	Maint Worl	ker III	1		ent before leaving	shop
L202	Maint Work	ker II	2	3. Place safety s		-
					nmunication syster	m if necessary
				5. Cut brush and	l small trees appro	x 8 feet beyond
EQUIP	MENT			ditch line		
CODE	CLASS		QTY	6. Chip brush an	nd tree imbs with ci	hipper
E121	Mower/bru	sh cutter	1	7. Clean roadwa	y of debris	
E102	Pickup		1	8. Remove safety	signs and devices	•
MATER CODE M391	RIALS CLASS Misc mater	ials	QTY 40			
AVERA	GE DAILY	ACCOMP	LISHMENT	MAINTENANO	CE FEATURE IN	VENTORY
QUANT	TITY V	WORK UN	IIT	FEATURE	UNIT	CODE
	3 s	houlder mi	le	shoulder	miles	
DI ANN	 ING GUIDE	TIME ADI	DDOVAI			
BY:	ING GUIDE	LINE AFI	NUVAL	EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: BRUSH CONTROL--MECHANICAL

ACTIVITY CODE: 712

PERSO	NNEL/CREW COSTS			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	2	8	22.36	357.76	
					10600	700/
	CREW TOTAL	3	16		586.88	50%
EQUIP	MENT			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E121	Mower	1	8	60.00	480.00	
E102	Pickup	2	8	4.00	64.00	
	_					
	EQUIPMENT TOTAL	3	16		544.00	46%
MATER	RIALS	<u> </u>	UNIT			% TOTA
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	40	1.00		40.00	
	MATERIALS TOTAL	40	1.00		40.00	3%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:				1 170 00	
	TOTAL DAILY COST	MDI ICI	MENT		1,170.88	auldon mila
	AVERAGE DAILY ACCOUNT (\$/UNIT)	JMIPLISH			390.29	oulder mile

ACTIVITY NAME: BRUSH CONTROL--MANUAL

ACTIVITY CODE: 713 (542.713)

ACTIVITY DESCRIPTION: Control of roadside brush using manual methods

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: As required for control of vegetation to maintain drainage and site distance

PERSO	NNEL		WORK CONSI	DERATIONS	
CODE	CLASS	QTY	1. Identify work	areas	
L203	Maint Worker III	2		ent before leaving	shop
L202	Maint Worker II	4		igns and devices	1
			~ .	nmunication system	n if necessarv
				l small trees appro:	
EQUIP	MENT	•	ditch line	11	3
CODE	CLASS	QTY	6. Chip brush an	nd tree imbs with ch	hipper
E117	Chainsaw	1	7. Clean roadwa		11
E103	Dump truck	1		signs and devices	
E102	Pickup	2			
E116	Chipper	1	REFERENCE A	AND SAFETY	
			1		
MATER	RIALS	ľ			
CODE	CLASS	QTY			
M391	Misc materials	40			
			7		
AVERA	GE DAILY ACCOM	PLISHMENT	MAINTENANO	CE FEATURE IN	VENTORY
QUANT	CITY WORK U	NIT	FEATURE	UNIT	CODE
	48 hours		shoulder	miles	
PLANN	ING GUIDELINE AI	PPROVAL	•	•	•
BY:			EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: BRUSH CONTROL--MANUAL

ACTIVITY CODE: 713

PERSO	NNEL/CREW COSTS			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	2	8	28.64	458.24	
L202	Maint Worker II	4	8	22.36	715.52	
	CREW TOTAL	6	16		1,173.76	69%
	CREW TOTAL	0	10		1,175.70	0770
EQUIP	MENT			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E116	Chipper	1	8	25.00	200.00	
E102	Pickup	2	8	4.00	64.00	
E103	Dump Truck	1	8	21.00	168.00	
E117	Chainsaw	2	8	3.00	48.00	
			22		400.00	2007
	EQUIPMENT TOTAL	6	32		480.00	28%
MATE	RIALS		UNIT			% TOTA
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	40	1.00		40.00	
	MATERIALS TOTAL	40	1.00		40.00	2%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				1,693.76	
	AVERAGE DAILY ACCO	DMPLISH	IMENT			hours
	UNIT COST (\$/UNIT)				35.29	

ACTIVITY NAME: CHEMICAL VEGETATION CONTROL--MECH

ACTIVITY CODE: 721 (542.721)

ACTIVITY DESCRIPTION: Control of roadside vegetation using chemicals applied from a spray truck

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE		X	X	X	X	X	X	X	X	X	X	

SCHEDULING CONSIDERATIONS: As required to control roadside vegetation

PERSO	NNEL			WORK CONSI	DERATIONS		
CODE	CLASS		QTY	1. Wear all nece	essary protective	clothing	
L203	Maint Work	ker III	1	-1 1	ow label instruc	_	
L202	Maint Work	ker II	1	3. Mix chemical			
					signs and device	S	
				5. Apply chemic	als to appropria	ate areas,	avoiding "no
EQUIP	MENT			spray" areas			
CODE	CLASS		QTY	6. Record appro	priate data		
E122	Spray truck	Ţ.	1	7. Remove safet	y signs and devi	ces	
				REFERENCE A	AND SAFETY		
				_			
				\dashv			
MATER	RIALS						
CODE	CLASS		QTY				
M393	spray mate	rials	100	_			
				-			
AVERA	 GE DAILY	ACCOMP	LISHMENT	MAINTENANO	TE FEATURE	INVENT	ORV
QUANT		WORK UN		FEATURE	UNIT	11441111	CODE
~ · · · · ·		houlder mil		shoulder	miles		
DI ANINI	INC CHIDE	TIME ADD	DOVAL				
PLANN BY:	ING GUIDE	LINE APP	KUVAL	EFFECTIVE D	ATE	PREV	7•

ACTIVITY NAME: CHEMICAL VEGETATION CONTROL--MECH

ACTIVITY CODE: 721

MEASUREMENT UNIT: shoulder miles

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	1	8	22.36	178.88	
	CREW TOTAL	2	16		408.00	21%
EQUIP	MENT			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E122	Spray truck	1	8	45.00	360.00	
	EQUIPMENT TOTAL	1	8		360.00	18%
MATEI	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M393	spray materials	100	12.00		1,200.00	
	MATERIALS TOTAL	100	12.00		1,200.00	61%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				1,968.00	
	AVERAGE DAILY ACCO	12 show	ulder miles			
	UNIT COST (\$/UNIT)				164.00	

ACTIVITY NAME: CHEMICAL VEGETATION CONTROL--MANUAL

ACTIVITY CODE: 722 (542.722)

ACTIVITY DESCRIPTION: Control of roadside vegetation using chemicals applied manually

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE		X	X	X	X	X	X	X	X	X		
SCHEDULING CO	NSIDI	ERATI	ONS:	Contr	ol of ro	adside ⁻	vegetat	ion usir	ig chen	iicals a	pplied	
manually												

PERSO	NNEL			WORK CONSI	DERATIONS	
CODE	CLASS		QTY	1. Wear all nece	ssary protective o	clothing
L203	Maint Wo	rker III	1		ow label instructi	_
L202	Maint Wo	rker II	1	3. Mix chemical.		
					igns and devices	
				——————————————————————————————————————	_	e areas, avoiding "no
EQUIP	MENT			spray" areas		
CODE	CLASS		QTY	6. Record appro	priate data	
E122	Spray truc	ek	1	7. Remove safety	v signs and device	es
E123	Backpack	spray unit	1			
E102	Pickup		1	REFERENCE A	AND SAFETY	
MATER	DIAIC			-		
CODE	CLASS		QTY	7		
M393	spray mat	erials	50			
				_		
				_		
AVERA	GE DAILY	ACCOMP	LISHMENT	MAINTENANO	CE FEATURE II	NVENTORY
QUANT	TITY	WORK UN	IT	FEATURE	UNIT	CODE
	16	hours		shoulder	miles	
DI ANN	INC CHID	ELINE API	PDOVAT			
BY:	ING GUID	ELINE ALI	RUVAL	EFFECTIVE D	ATE.	PREV:

ACTIVITY NAME: CHEMICAL VEGETATION CONTROL--MANUAL

ACTIVITY CODE: 722

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI	
CODE	CLASS	QTY	HOURS	RATE	COST	COST	
L203	Maint Worker III	1	8	28.64	229.12		
L202	Maint Worker II	1	8	22.36	178.88		
	CREW TOTAL	2	16		408.00	29%	
EQUID	MENT	•		HOURLY		A/ TOTAL	
EQUIPI CODE	CLASS	QTY	HOURS	RATE	COST	% TOTAI	
E122		7	8	45.00	360.00	0051	
E122 E123	Spray truck	1	8	43.00	32.00		
E123 E102	Pickup Backpack sprayer	1	8	3.00	24.00		
L102	Buckpuck sprayer	1		3.00	24.00		
	EQUIDMENT TOTAL	3	24		416.00	29%	
	EQUIPMENT TOTAL] 3	24		410.00	2970	
MATEI	RIALS		UNIT			% TOTAI	
CODE	CLASS	QTY	COST		COST	COST	
M393	spray material	50	12.00		600.00		
	MATERIALS TOTAL	50	12.00		600.00	42%	
	CONTRACT SERVICES				0.00	0%	
	SUMMARY:						
	TOTAL DAILY COST				1,424.00		
	AVERAGE DAILY ACCO	MPLISH	IMENT		16 hours		
	UNIT COST (\$/UNIT)				89.00		

ACTIVITY NAME: LANDSCAPE MAINTENANCE

ACTIVITY CODE: 731 (542.731)

ACTIVITY DESCRIPTION: Maintenance of landscaped area

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE			X	X	X	X	X	X	X	X		
SCHEDULING CO	NSIDI	ERATI	ONS:	As req	juired							

PERSO:	NNEL		WORK CON	ISIDERATIONS	
CODE	CLASS	QTY	1. Perform a	s needed in landscape	d areas
L202	Maint Work	er II 4		vork area control to p	
			1	ropriate eye and ear p	-
				k area and dispose of	
EQUIP	<u> </u> MENT				
CODE	CLASS	QTY			
E102	Pickup	2			
	Hand tools				
			REFERENC	E AND SAFETY	
MATER					
CODE	CLASS	QTY			
M391	Misc materi	als 60)		
AVERA	GE DAILY A	ACCOMPLISHM	ENT MAINTENA	NCE FEATURE IN	VENTORY
QUANT	CITY W	VORK UNIT	FEATURE	UNIT	CODE
	32 h	ours	shoulder	miles	
PLANN	ING GUIDEI	LINE APPROVA	L		
BY:			EFFECTIVE	DATE:	PREV:

ACTIVITY NAME: LANDSCAPE MAINTENANCE

ACTIVITY CODE: 731

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L202	Maint Worker II	4	8	23	736.00	
					0.00	
	CDEW/TOTAL	4	0		726.00	070/
	CREW TOTAL	4	8		736.00	87%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	2	8	4.00	64.00	
	EQUIPMENT TOTAL	2	8		64.00	8%
MATER	RIALS		UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	50	1.00		50.00	
	MATERIALS TOTAL	50	1.00		50.00	6%
	WITTERINES TOTTE		1.00		20.00	0,0
	CONTRACT SERVICES				0.00	0%
						•
	SUMMARY:					
	TOTAL DAILY COST				850.00	
	AVERAGE DAILY ACCO	MPLISH	MENT		32 hou	rs
	UNIT COST (\$/UNIT)				26.56	

ACTIVITY NAME: LITTER CONTROL

ACTIVITY CODE: 751 (542.751)

ACTIVITY DESCRIPTION: Control of litter along roadside

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: As required

PERSO	NNEL			WORK CONS	IDERATIONS	
CODE L202	CLASS Maint Wor	rker II	QTY 2	2. Begin litter p	signs and devices pickup at designate	d location
	(work rele	ase crew)			traffic and safety ected debris and lit	ter
EQUIP	MENT					
CODE	CLASS		QTY			
E102	Pickup		1			
				REFERENCE	AND SAFETY	
				_		
MATER CODE	CLASS		QTY	-		
M391	Misc mate	rials	40			
			LISHMENT		CE FEATURE IN	
QUANT		WORK UN	NIT	FEATURE	UNIT	CODE
	16	hours		shoulder	miles	
PLANN	ING GUID	ELINE AP	PROVAL			
BY:				EFFECTIVE D	DATE:	PREV:

ACTIVITY NAME: LITTER CONTROL

ACTIVITY CODE: 751

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E202	Maint Worker II	2	8	23	368.00	
	CREW TOTAL	2	8		368.00	84%
EQUIP	MENT			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L102	Pickup	1	8	4.00	32.00	
	EQUIPMENT TOTAL	1	8		32.00	7%
MATE	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	40	1.00		40.00	
	MATERIALS TOTAL	40	1.00		40.00	9%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				440.00	
	AVERAGE DAILY ACCO	<u>)MPLISH</u>	IMENT		16 hou	rs
	UNIT COST (\$/UNIT)				27.50	

ACTIVITY NAME: *SLOPE REPAIR*

ACTIVITY CODE: 761 (542.761)

ACTIVITY DESCRIPTION: Repair and dressing of slopes

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE		X	X	X	X					X	X	

SCHEDULING CONSIDERATIONS: As required

PERSO	NNEL			WORK CONSI	DERATIONS		
CODE	CLASS		QTY	—	signs and device	S	
L203	Maint Wo	rker III	2	2. Check for loc	_		ities
L202	Maint Wo	rker II	2	3. Grade and co	-		
				4. Avoid underc			
				5. Load and hai		sal site	
EQUIP	MENT			6. Clean work a	-		
CODE	CLASS		QTY	7. Remove safet	y signs and devi	ces	
E114	Excavator	/Backhoe	1				
E103	Dump true	ck	1				
E102	Pickup		1	REFERENCE .	AND SAFETY		
MATEI			T	_			
CODE	CLASS		QTY	_			
M301	crushed re	ock	10	_			
				_			
				_			
				_			
			LISHMENT	MAINTENANO		INVENT	
QUANT		WORK UN	NIT	FEATURE	UNIT		CODE
	32	hours		shoulder	miles		
	ING GUID	ELINE AP	PROVAL	T		<u> </u>	
BY:				EFFECTIVE D	ATE:	PRE	V:

ACTIVITY NAME: SLOPE REPAIR

ACTIVITY CODE: 761

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	2	8	28.64	458.24	
L202	Maint Worker II	2	8	22.36	357.76	
					01.500	7004
	CREW TOTAL	4	16		816.00	50%
EQUIP	MENT			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E114	Excavator	1	8	45.00	360.00	
E102	Pickup	1	8	4.00	32.00	
E103	Dump Truck	1	8	21.00	168.00	
	EQUIPMENT TOTAL	3	24		560.00	35%
MATEI	DIAIS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M301	crushed rock	20	12.00		240.00	3351
		•	4.00		2.10.00	1.70
	MATERIALS TOTAL	20	12.00		240.00	15%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:					
	TOTAL DAILY COST				1,616.00	
	AVERAGE DAILY ACCO	MPLISH	IMENT		32 hou	rs
	UNIT COST (\$/UNIT)				50.50	

ACTIVITY NAME: OTHER ROADSIDE MAINTENANCE

ACTIVITY CODE: 790 (542.790)

ACTIVITY DESCRIPTION: Other maintenance activities required along road right-of-way

MONTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCHEDULE	X	X	X	X	X	X	X	X	X	X	X	X

SCHEDULING CONSIDERATIONS: As required

PERSO	NNEL		WORK CONSI	DERATIONS	
CODE	CLASS	QTY	1. Place safety s	signs and device	es es
L203	Maint Worker III	2	2. Check for loc	_	
L202	Maint Worker II	2	3. Perform work	-	
			4. Clean work a	-	
			5. Remove safet	y signs and devi	ices
EQUIP	MENT				
CODE	CLASS	QTY			
E102	Pickup	1			
E103	Dump truck	1			
E114	Excavator	1	REFERENCE A	AND SAFETY	
MATEI					
CODE	CLASS	QTY	_		
M391	Misc materials	40	_		
			_		
	GE DAILY ACCOM		MAINTENANC	T	
QUANT		NIT	FEATURE	UNIT	CODE
	32 hours		shoulder	miles	
	ING GUIDELINE AF	PROVAL	_		•
BY:			EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: OTHER ROADSIDE MAINTENANCE

ACTIVITY CODE: 790

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E204	Maint Worker III	2	8	28.64	458.24	
E202	Maint Worker II	2	8	22.36	357.76	
	CREW TOTAL	4	16		816.00	58%
	CREW IUIAL	4	10		810.00	3670
EQUIP	MENT			HOURLY		% TOTAI
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E114	Excavator	1	8	45.00	360.00	
E102	Pickup	1	8	4.00	32.00	
E103	Dump Truck	1	8	21.00	168.00	
	EQUIPMENT TOTAL	3	24		560.00	40%
	EQUIPMENT TOTAL] 3	24		300.00	40%
MATEI	RIALS		UNIT			% TOTAI
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	40	1.00		40.00	
	MATERIALOTOTAL	40	1.00		40.00	20/
	MATERIALS TOTAL	40	1.00		40.00	3%
	CONTRACT SERVICES				0.00	0%
	CONTINICI DERVICES				0.00	070
	SUMMARY:					
	TOTAL DAILY COST				1,416.00	
	AVERAGE DAILY ACCO	MPLISH	IMENT		32 hou	rs
	UNIT COST (\$/UNIT)				44.25	

MONTHLY

SCHEDULE

JAN

WASHINGTON COUNTIES Maintenance Management MAINTENANCE ACTIVITY PLANNING GUIDELINE

JUL

X

AUG

SEP

OCT

NOV

DEC

ACTIVITY NAME: ANCILLARY OPERATIONS

ACTIVITY CODE: 800 (542.800)

FEB MAR APR MAY JUN

X

ACTIVITY DESCRIPTION: Other maintenance activities including work on ferries, docks, moveable bridges or work performed for other departments/agencies

SCHED	ULING CO	ONSIDERA'	TIONS: As re	equired		
PERSO	NNEL			WORK CONSI	DERATIONS	
CODE	CLASS		QTY	- 		be performed and
L203	Maint Wo	rker III	1	location(s)		1 0
L202	Maint Wo	rker II	1	2. Identify neces	sary labor, equip	oment and materials
				to complete acti	vity	
				3. Place safety s	igns as needed	
EQUIPN	MENT			4. Follow safety	procedures	
CODE	CLASS		QTY	5. Adhere to any	, special requiren	nents for type of
E102	Pickup		1	activity and core	odinate with othe	r agencies as needed
				4		
				REFERENCE A	AND SAFETY	
MATER				_		
CODE	CLASS		QTY			
M391	Misc mate	rials	40			
AVERA	GE DAILY	ACCOMP	LISHMENT	MAINTENANC	EE FEATURE II	NVENTORY
QUANT	TTY	WORK UN	VIT TIV	FEATURE	UNIT	CODE
	16	hours		year	one	
PI A NN	ING GUID	ELINE ADI	PROVAL			
BY:	II (O GOID)	DUITE AL	ROVAL	EFFECTIVE D	ATE:	PREV:

ACTIVITY NAME: ANCILLARY OPERATIONS

ACTIVITY CODE: 800

PERSO	NNEL/CREW COSTS			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L203	Maint Worker III	1	8	28.64	229.12	
L202	Maint Worker II	1	8	22.36	178.88	
	CREW TOTAL	2	16		408.00	85%
EQUIP	MENT			HOURLY		% TOTAL
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00	
					22.00	70/
	EQUIPMENT TOTAL	1	8		32.00	7%
MATEI	RIALS		UNIT			% TOTAL
CODE	CLASS	QTY	COST		COST	COST
M391	Misc materials	40	1.00		40.00	
	MATERIALS TOTAL	40	1.00		40.00	8%
	CONTRACT SERVICES				0.00	0%
	SUMMARY:				100.00	
	TOTAL DAILY COST	21 4 D Y Y 22	0.600		480.00	
	AVERAGE DAILY ACCO	<u>)MPLISE</u>	IMENT		16 hou	rs
	UNIT COST (\$/UNIT)				30.00	

			MAINTENANCE ACTIVITY PLANNING GUIDELINE										
			ACTI	VITY N	NAME	: MAII	NTENA	NCE A	DMINI	STRAT	ION		
			ACTI	VITY (CODE	: 910	(542.9	10)					
ACTIVI	TY DESC	RIPTIO	 DN: Ad	ministro	ative ac	ctivities	related	to mai	ntenand	ce oper	ations.		
MON	NTHLY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCH	EDULE	X	X	X	X	X	X	X	X	X	X	X	X
SCHED	ULING CO)NSID	ERATI	ONS:	As red	quired							
PERSO	NNEL					WORI	K CON	SIDE	RATIO	NS			
CODE	CLASS			QTY									
E209	Supt/Supv	y/Mgr		1									
						1							
						-							
EQUIPN	<u> </u> MENT					-							
CODE	CLASS			QTY		-							
E102	Pickup			1		1							
	-												
						REFE	RENC	E AND	SAFE	TY			
						_							
						1							
MATER	PIALS												
CODE	CLASS			QTY									
						-							
						1							
AVERA	<u> </u> GE DAILY	YACC	OMPI.	L ISHMI	ENT	MAIN	TENA	NCE F	EATH	RE IN	VENT	ORY	
QUANT	AGE DAILY ACCOMPLISHMENT MAINTENANCE FEATITY WORK UNIT FEATURE U		UNIT	1417 111	, 11111	CODE							
		hours				year			one				
PLANN:	ING GUID	ELINE	E APPI	ROVAL									

BY: EFFECTIVE DATE: PREV:

ACTIVITY NAME: MAINTENANCE ADMINISTRATION

ACTIVITY CODE: 910

PERSO	NNEL/CREW COSTS			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
L206	Sup/Supv/Mgr	1	8	31	248.00	
	CREW TOTAL	1	8		248.00	89%
EQUIP	MENT			HOURLY		% TOTA
CODE	CLASS	QTY	HOURS	RATE	COST	COST
E102	Pickup	1	8	4.00	32.00	
					0.00	
					0.00	
					0.00	
					0.00	
					0.00	
	EQUIPMENT TOTAL	1	8		32.00	11%
MATEI	RIALS		UNIT			% TOTA
CODE	CLASS	QTY	COST		COST	COST
					0.00	
	MATERIALS TOTAL	0	0.00		0.00	0%
	CONTRACT SERVICES			0.00	0%	
	SUMMARY:					
	TOTAL DAILY COST	280.00				
	AVERAGE DAILY ACCO	8	hours			
	UNIT COST (\$/UNIT)	35.00				